



# Product Name: Dual Spectrum PTZ Camera

**Model: AJ-TW10H-75-60**

**Features:**

Thermal imaging and visible light dual-band operation, all-weather adaptability.

The thermal imaging resolution is 640\*512 with a 75mm thermal imaging lens, and the visible light uses a 60x zoom 4mega pixels high-definition network all-in-one module.

360° horizontal rotation, ±90° vertical rotation. No blind spots.

The preset position accuracy reaches 0.1°, the fastest speed is 90° per second, and the target point can be quickly captured.

Imported grease, oil seal, the lowest temperature can reach -35°C cold start

Ultra-low power consumption, suitable for electric use

Lightning protection, surge protection and surge protection functions can effectively prevent 3000V instantaneous current.

The whole machine adopts super strong aluminum alloy shell, with excellent heat dissipation performance and IP6 6 protection, which is rainproof and dust proof. Support bottom outlet.

**Application scenarios:**

Suitable for forest fire prevention, border and coastal defense, environmental protection, petrochemical industry, electric power and other industries as well as long-distance area inspections

Thermal imager	
Detector type	Uncooled infrared focal plane sensor
Material Type	Vanadium oxide
Original Pixels	640(H)* 512(V)
Video resolution	1280*1080
Pixel spacing	12μm
Thermal sensitivity (NETD)	≅ 40mK@25°C
Response band	8 ~14μm
Frame rate output	25 / 30Hz
Thermal imager lens	
Lens type	Electric focus
focal length	75 mm

F-number	f /1.0
Field of view	5.9° * 4.7°
Detection Distance	Detection distance (fire point: 1.0*1.0m) 6250m Detection distance (humanoid: 1.8*0.5m) 2965m Detection distance (vehicle: 4.0*1.5m) 7655m Identification distance (humanoid: 1.8*0.5m) 988m Identification distance (vehicle: 4.0*1.5m) 2550m
Digital Video	H.264
Main stream image	1280*1024, 1280*720, 640*480, 25Hz
Boot time	10 seconds
Image processing	Non-uniformity correction, intelligent gain control, digital detail mixing enhancement, 3D noise reduction
Color Palette	Supports 10 color palettes including black hot, white hot, iron red, rainbow, etc. / customizable
<b>Visible light movement</b>	
Sensor Type	1/1.8" Progressive Scan CMOS
Minimum illumination	Color: 0.0005 Lux @ (F1.5, AGC ON); Black and white: 0.0001 Lux @ (F1.5, AGC ON)
Electronic shutter	1/25 sec. to 1/100,000 sec.; supports slow shutter speeds
Automatic aperture	DC drive
Day and night mode	Automatic ICR infrared filter
Digital zoom	16 times
focal length	6.5-384mm, 60x optical zoom
aperture	F1.35-F4.6
Horizontal field of view	61.28-1.41 degrees (wide angle-telephoto)
Close shooting distance	100mm-1500mm (wide angle-telephoto)
Zoom speed	About 5 seconds (optical, wide-angle-telephoto)
Video compression standards	H.265 / H.264 / MJPEG
H.265 encoding type	Main Profile
H.264 encoding type	BaseLine Profile / Main Profile / High Profile
Video compression bitrate	32 Kbps~16Mbps
Audio compression standards	G.711a/G.711u/G.722.1/G.726/MP2L2/AAC/PCM
Audio compression bitrate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/16-64Kbps(AAC)
Main stream resolution	50Hz: 25fps (2560*1440, 1920 × 1080, 1280 × 960, 1280 × 720); 60Hz: 30fps (2560*1440, 1920 × 1080, 1280 × 960, 1280 × 720)
Third stream resolution and frame rate	Independent of the main stream setting, the maximum supported resolution is: 50Hz: 25fps (704 × 576); 60Hz: 30fps (704 × 576)
Image Settings	Saturation, brightness, contrast, and sharpness are adjustable through the client or browser
Backlight compensation	Support, customizable area
Exposure Mode	Automatic exposure/Aperture priority/Shutter priority/Manual exposure
Focus Mode	Auto focus/One-shot focus/Manual focus/Semi-auto focus

Area exposure/focus	support
Optical fog penetration	support
Electronic image stabilization	support
Day and night conversion mode	Automatic, manual, timing, alarm trigger
3D noise reduction	support
Image Overlay	Support BMP 24-bit image overlay, customizable area
Area of interest	Support three streams, set 4 fixed areas respectively
Algorithm detection	Face capture (see specific models), video structuring (see specific models)
Intelligent computing power	1T
External interface	36-pin FFC (including Ethernet, RS485, RS232, SDHC, Alarm In/Out, Line In/Out, power)
<b>PTZ performance</b>	
Rotation angle	Horizontal 0° ~ 360° continuous rotation, vertical: +90° ~ -90°
Rotation speed	Horizontal: 0.01° ~20° /s; Vertical: 0.01° ~20° /s
Wiper function	support
Preset position accuracy	± 0.1°
scanning	8 groups (each group can add 32 preset points)
cruise	12 groups (each group can add 32 preset points)
Trajectory	6 (each path recording time is greater than 5 minutes)
Guardian Position	support
3D positioning	support
Power off memory	support
Angle return	Horizontal and pitch angles can be transmitted simultaneously
scanning	Horizontal 0° ~ 360° continuous rotation, vertical: +90° ~ -90°
<b>Audio and Video</b>	
Main stream	60fps (2688*1520)
Substream	60fps (1280X720)
Stream Control	CBR/VBR
Bitrate range	Thermal imaging main stream 100Kbps~6MKbps,
Audio compression standards	G711: 8kbps, RAW_PCM: 16kbps
Video format	H.264/H.265
<b>Features</b>	
Intelligent alarm	Motion detection alarm, I/O alarm, disk alarm, temperature measurement warning, intelligent analysis alarm, network anomaly alarm
Intelligent detection	Support human and vehicle detection
Intelligent Analysis	Tripwire, fence crossing, area intrusion, item left behind, fast movement, parking detection, crowd gathering, item removal, and loitering detection
Privacy Masking	Not supported
Character display	Temperature, time, date, channel name, custom

Network Protocol	
Network Protocol	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS, GB28181, Onvif
concurrent users	Route 10
User permissions	Up to 20
Support SDK development	Linux C /windows
Automatic device discovery	support
Front-end access protocol	ONVIF, national standard (customizable)
Web Languages	Only testing is supported, not all shipments are supported
interface	
Network interface	1 RJ45 10/100Base-T adaptive Ethernet port
Audio Interface	Support customization (1-way output and 1-way input can realize intercom)
Alarm interface	Support customization (conventional 1-way input and 1-way output)
Analog Video	Not supported
PTZ control	RS485
Reset	Built-in camera
SD card interface	Support, up to 1Tb
General Specifications	
power supply	DC9-30V (AC24V optional)
Power consumption	≤45W
Operating temperature	-40 ° C~60°C
Operating humidity	0~95% RH
Shell material	aluminum alloy
Protection level	IP6 6
Installation	Vertical installation
size	483×290×243mm (L x W x H) (cable exit from bottom)
weight	10 KG

Dimensions:

